

Title (en)

COATING COMPOSITIONS CONTAINING (METH)ACRYLIC RESINS HAVING SILANE GROUPS

Title (de)

BESCHICHTUNGSZUSAMMENSETZUNGEN MIT (METH)ACRYLHARZEN MIT SILANGRUPPEN

Title (fr)

COMPOSITIONS DE REVÊTEMENT CONTENANT DES RÉSINES (MÉTH)ACRYLIQUES COMPORTANT DES GROUPES SILANE

Publication

EP 4004060 B1 20230531 (EN)

Application

EP 20751491 A 20200729

Priority

- EP 19188915 A 20190729
- EP 2020071358 W 20200729

Abstract (en)

[origin: WO2021018945A1] The present invention relates to a coating composition comprising one or more (meth)acrylic polymers comprising moieties of formula (I) $\text{*C(=O)-O-CH}_2\text{-Si(Ra)}_3\text{-x(Rb)}_x$ wherein Ra = m ethoxy; Rb = an alkyl group containing 1 to 4 carbon atoms or an alkoxy group containing 1 to 4 carbon atoms; x being 0 or 1; and the asterisk * denoting the position at which the moiety of formula (I) is attached to the polymeric backbone of the (meth)acrylic polymer; further containing one or more catalysts of formula (II) $\text{H}_3\text{C-C(Rc)(Rd)-C(=O)-O- M}^+$ wherein Rc and Rd = alkyl groups containing 1 to 6 carbon atoms, with the proviso that the sum of the number of carbon atoms in residues Rc and Rd ranges from 2 to 7, and M = for Li, K or Na; and further containing one or more aprotic organic solvents. The present invention further relates to a method of coating a substrate with the coating compositions and therewith coated substrates as well as multilayer coatings and a substrate coated with such multilayer coating.

IPC 8 full level

C08F 4/34 (2006.01); **C08F 2/06** (2006.01); **C08F 220/18** (2006.01); **C08F 230/08** (2006.01); **C08J 7/04** (2020.01); **C08J 7/046** (2020.01); **C08K 5/098** (2006.01); **C09D 133/10** (2006.01); **C09D 143/04** (2006.01); **C09D 201/10** (2006.01)

CPC (source: CN EP US)

B05D 7/53 (2013.01 - US); **C08F 2/06** (2013.01 - CN EP); **C08F 4/34** (2013.01 - CN EP); **C08F 4/482** (2013.01 - US); **C08F 212/08** (2013.01 - US); **C08F 220/1804** (2020.02 - CN EP US); **C08F 220/1806** (2020.02 - CN EP US); **C08F 230/08** (2013.01 - EP); **C08F 230/085** (2020.02 - CN US); **C08J 7/0427** (2020.01 - EP); **C08J 7/046** (2020.01 - EP); **C08K 5/01** (2013.01 - US); **C09D 7/63** (2017.12 - CN); **C09D 133/10** (2013.01 - EP); **C09D 143/04** (2013.01 - CN EP US); **B05D 2425/01** (2013.01 - US); **C08J 2400/108** (2013.01 - EP); **C08J 2433/10** (2013.01 - EP); **C08J 2443/04** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2021018945 A1 20210204; CN 114174447 A 20220311; CN 114174447 B 20230512; EP 4004060 A1 20220601; EP 4004060 B1 20230531; ES 2950837 T3 20231013; JP 2022543371 A 20221012; MX 2022001223 A 20220302; US 2022282114 A1 20220908

DOCDB simple family (application)

EP 2020071358 W 20200729; CN 202080054326 A 20200729; EP 20751491 A 20200729; ES 20751491 T 20200729; JP 2022506411 A 20200729; MX 2022001223 A 20200729; US 202017630380 A 20200729